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Term	Documents
RF	319682
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<u>L7</u>	L6 and (RF or volume) adj coil	12	<u>L7</u>
<u>L6</u>	L5 and ((magnetic adj resonance) or MRI or NMR)	89	<u>L6</u>
<u>L5</u>	L4 and (circular\$3 adj polariz\$3)	1030	<u>L5</u>
<u>L4</u>	Asymmetric\$3	172147	<u>L4</u>
<u>L3</u>	L2 and Asymmetric\$3	1	<u>L3</u>

L2 L1 and circular\$3
L1 6060882 and polarize\$3

3 L2
3 L1

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☐ 1. Document ID: US 6633161 B1 Relevance Rank: 99

Using default format because multiple data bases are involved.

L2: Entry 2 of 3

File: USPT

Oct 14, 2003

US-PAT-NO: 6633161

DOCUMENT-IDENTIFIER: US 6633161 B1

TITLE: RF coil for imaging system

DATE-ISSUED: October 14, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Vaughan, Jr.; J. Thomas	Stillwater	MN		

US-CL-CURRENT: 324/318; 324/322

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	FOIA	Grav. B.
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☐ 2. Document ID: US 6806711 B2 Relevance Rank: 96

L2: Entry 1 of 3

File: USPT

Oct 19, 2004

US-PAT-NO: 6806711

DOCUMENT-IDENTIFIER: US 6806711 B2

TITLE: High-frequency volume coil/surface coil arrangement for a magnetic resonance tomography apparatus

DATE-ISSUED: October 19, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Reykowski; Arne	Erlangen			DE

ASSIGNEE-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE CODE
Siemens Aktiengesellschaft	Munich			DE	03

APPL-NO: 10/ 152895 [PALM]
DATE FILED: May 21, 2002

FOREIGN-APPL-PRIORITY-DATA:

COUNTRY	APPL-NO	APPL-DATE
DE	101 26 338	May 30, 2001

INT-CL: [07] G01 V 3/00

US-CL-ISSUED: 324/318
US-CL-CURRENT: 324/318

FIELD-OF-SEARCH: 324/300-309, 324/311, 324/314, 324/318-322, 600/410, 600/422,
333/219, 333/230

PRIOR-ART-DISCLOSED:

U.S. PATENT DOCUMENTS

PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
<u>4623844</u>	November 1986	Macovski	324/320
<u>4680549</u>	July 1987	Tanttu	
<u>4879516</u>	November 1989	Mehdizadeh et al.	324/318
<u>4918388</u>	April 1990	Mehdizadeh et al.	324/322
<u>5059906</u>	October 1991	Yamanaka	324/318
<u>5198768</u>	March 1993	Keren	324/318
<u>5394087</u>	February 1995	Molyneaux	324/318
<u>5473251</u>	December 1995	Mori	324/318
<u>5500596</u>	March 1996	Grist et al.	324/318
<u>5617027</u>	April 1997	Decke	
<u>5666055</u>	September 1997	Jones et al.	324/318
<u>5682098</u>	October 1997	Vij	324/318
<u>5699802</u>	December 1997	Duerr	
<u>5757189</u>	May 1998	Molyneaux et al.	324/318
<u>5951474</u>	September 1999	Matsunaga et al.	600/422
<u>6060882</u>	May 2000	Doty	324/318
<u>6169401</u>	January 2001	Fujita et al.	324/318
<u>6300761</u>	October 2001	Hagen et al.	324/318
<u>6317091</u>	November 2001	Oppelt	343/742
<u>6377044</u>	April 2002	Burl et al.	324/307
<u>6504369</u>	January 2003	Varjo et al.	324/318
<u>6624633</u>	September 2003	Zou et al.	324/318
<u>2002/0196021</u>	December 2002	Wang	324/318
<u>2003/0060699</u>	March 2003	Creemers	600/410

ART-UNIT: 2859

PRIMARY-EXAMINER: Fulton; Christopher W.

ASSISTANT-EXAMINER: Vargas; Dixomara

ATTY-AGENT-FIRM: Schiff Hardin LLP

ABSTRACT:

High-frequency coil arrangement for a magnetic resonance tomography apparatus and magnetic resonance tomography apparatus employing such an arrangement have a surface coil and a loop coil for enclosing the examination subject. Both coils are fashioned for receiving the same first polarization component. A switching device is present for alternately deactivating and/or activating the surface coil and the loop coil. The two coils are preferably arranged on a common carrier structure that is bendable.

24 Claims, 7 Drawing figures

Full	Title	Location	Front	Review	Classification	Date	Reference			Claims	Keywords	Drawings
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☐ 3. Document ID: US 6060882 A Relevance Rank: 95

L2: Entry 3 of 3

File: USPT

May 9, 2000

US-PAT-NO: 6060882

DOCUMENT-IDENTIFIER: US 6060882 A

TITLE: Low-inductance transverse litz foil coils

DATE-ISSUED: May 9, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Doty; F. David	Columbia	SC		

ASSIGNEE-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE CODE
Doty Scientific, Inc.	Columbia	SC			02

APPL-NO: 09/ 091987 [PALM]

DATE FILED: June 29, 1998

PARENT-CASE:

This is a national-stage of PCT application no. PCT/US96/20706, filed Dec. 26, 1996, claiming priority from provisional application no. 60/009,408, filed Dec. 29, 1995.

PCT-DATA:

APPL-NO	DATE-FILED	PUB-NO	PUB-DATE	371-DATE	102 (E) -DATE
PCT/US96/20706	December 26, 1996	WO97/26560	Jul 24, 1997	Jun 29, 1998	Jun 29, 1998

INT-CL: [07] G01 V 3/00

US-CL-ISSUED: 324/318; 324/319, 324/322, 600/421

US-CL-CURRENT: 324/318; 324/319, 324/322, 600/421

FIELD-OF-SEARCH: 324/300-322, 324/318, 600/421

PRIOR-ART-DISCLOSED:

U.S. PATENT DOCUMENTS

PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
<u>4398149</u>	August 1983	Zens	324/319
<u>4517516</u>	May 1985	Hill	324/318
<u>4549136</u>	October 1985	Zens	324/308
<u>4563648</u>	January 1986	Hill	324/318
<u>4641098</u>	February 1987	Doty	324/322
<u>4820987</u>	April 1989	Mens	324/318
<u>4878022</u>	October 1989	Carlson	324/318
<u>5379768</u>	January 1995	Smalen	128/653.5
<u>5481191</u>	January 1996	Rzedzian	324/318

OTHER PUBLICATIONS

Borsboom et al. Low-frequency quadrature mode birdcage resonator' MAGMA (united states) Mar. 1997, 5(1) pp.33-37 ISSN 0968-5243.

Leifer, Mark C. "Theory of the quadrature Elliptic Birdcage Coil" Magnetic Resonance in Medicine MRM vol. 38 pp. 726-732, Apr. 1997.

Li, Shizhe et al. "A Method to Create an Optimum Current Distribution and Homogeneous B1 Field for Elliptical Birdcage Coils" Magnetic Resonance in Medicine MRM vol. 37, pp. 600-608, Mar. 1997.

Vujcic, T. et al., "Transverse Low-Field RF Coils in MRI" Magnetic Resonance in Medicine MRM vol. 36 1997 pp. 111-116, Dec. 1996.

L. Bollinger, M.G. Prammer, and J.S. Leigh, "A Multiple-Frequency Coil with a Highly Uniform B.sub.1 Field," J. Magn. Reson., 1988, 81, 162-166.

G.J. Kost, S.E. Anderson, G.B. Matson, and C.B. Conboy, "A Cylindrical-Window NMR Probe with Extended and Tuning Range for Studies of the Developing Heart," J. Magn. Reson., 1989, 82, 238-252.

G. Isaac, M.D. Schnall, R.E. Lenkinski, and K. Vogele, "A Design for a Double-Tuned Birdcage Coil for Use in an Integrated MRI/MRS Examination," J. Magn. Reson., 1990, 89, 42-50.

J.R. Fitzsimmons, B.L. Beck, H.R. Brooker, "Double Resonant Quadrature Birdcage," Magn. Reson. in Med., 1993, 30, 107-114.

F.D. Doty, "Probe Design and Construction," Encyclopedia of NMR, Wiley Press, 1996.

ART-UNIT: 282

PRIMARY-EXAMINER: Oda; Christine K.

ASSISTANT-EXAMINER: Fetzner; Tiffany A.

ATTY-AGENT-FIRM: Oppedahl & Larson LLP

ABSTRACT:

A family of NMR coils based on Litz foil conductor groups is disclosed. The simplest embodiment is a two-element Litz foil coil. The foils are joined at node (1) and node (2) and are electrically insulated at crossover (3). When the coil is positioned in a plane perpendicular to a uniform magnetic field, the areas (A) defining two flux sub-windows must be equal.

37 Claims, 39 Drawing figures

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	File	Draw D.
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Term	Documents
CIRCULAR\$3	0
CIRCULAR	1437461
CIRCULARA	5
CIRCULARACK	1
CIRCULARAI	2
CIRCULARAIL	1
CIRCULARAIR	1
CIRCULARAL	2
CIRCULARALY	2
CIRCULARAN	2
CIRCULARAND	19
(L1 AND CIRCULAR\$3).PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD.	3

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